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## Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

## Listing of Claims:

Claims 1-23 (canceled).

Claim 24 (new): An antenna array comprising:

first and second separate sheet-shaped supports, wherein each of the first and second sheet-shaped supports is folded along corresponding first and second fold-lines in said first and second sheet-shaped supports, respectively, so as to form through each of said first and second sheet-shaped supports:

a first support plane, in each one of the first and second sheet-shaped supports and respectively along said first and second ones of the fold-lines, having a first antenna structure arranged for receiving or emitting electro-magnetic radiation; and

a second support plane, in each one of the first and second sheet-shaped supports and adjacent to said first support plane therein and respectively along said first and second ones of the fold-lines, the second support plane in said each one of the first and second sheet-shaped supports being positioned at an angle with respect to the first support plane also in said each one of the first and second sheet-shaped supports, respectively, and having a second antenna structure arranged for receiving or emitting electro-magnetic radiation which differs in at least one

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- property from the electromagnetic radiation which is received or emitted by the first antenna structure; and
- wherein the first and second sheet-shaped supports are physically connected to each other at or near the first and second fold-lines.
- 1 Claim 25 (new): The antenna array as recited in claim 24
- wherein the first sheet-shaped support is folded along two
- 3 separate fold-lines.
- 1 Claim 26 (new): The antenna array as recited in claim 24
- wherein:
- 3 the first antenna structure is arranged for receiving
- 4 or emitting electro-magnetic radiation of a first
- 5 polarization; and
- 6 the second antenna structure is arranged for receiving
- 7 or emitting electro-magnetic radiation of a second
- 8 polarization different from the first polarization.
- 1 Claim 27 (new): The antenna array as recited in claim 25
- further comprising, for the first sheet-shaped support, a
- 3 base plane adjacent to a side of one of said two separate
- fold-lines in the first sheet-shaped support, one of the
- first and second support planes being adjacent to another
- side of said one of said two separate fold-lines, and said
- 7 base plane being positioned at an angle with respect to the
- 8 first and second support planes.
- 1 Claim 28 (new): The antenna array as recited in claim 24
- wherein one of the first and second sheet-shaped supports
- 3 comprises a first electrically insulating layer.

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- 1 Claim 29 (new): The antenna array as recited in claim 28
- wherein the first electrically insulating layer comprises a
- 3 flexible material.
- Claim 30 (new): The antenna array as recited in claim 28
- 2 further comprising:
- a first electrically conducting layer located at a
- 4 first side of the first electrically insulating layer; and
- a second electrically conducting layer located at a
- 6 second side of the first electrically insulating layer and
- 7 shaped into a feed.
- Claim 31 (new): The antenna array as recited in claim 30
- further comprising a third electrically conducting layer
- 3 situated at the second side of the first electrically
- 4 insulating layer and shaped into connecting lines for
- transmitting signals from or to the first antenna structure.
- 1 Claim 32 (new): The antenna array as recited in claim 31
- wherein:
- 3 the feed lies between the first electrically insulating
- 4 layer and a second electrically insulating layer; and
- 5 the connecting lines are present at a side of the
- 6 second electrically insulating layer facing away from the
- 7 first electrically insulating layer.
- 1 Claim 33 (new): The antenna array as recited in claim 27
- 2 wherein the first conducting layer extends over a portion of
- 3 the base plane.
- 1 Claim 34 (new): The antenna array as recited in claim 30
- further comprising an amplifier element positioned at the

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- 3 second side of the first electrically insulating layer, said
- 4 amplifier element having signal and reference inputs, the
- signal input being connected to the feed and the reference
- 6 input being connected to ground.
- 1 Claim 35 (new): The antenna array as recited in claim 30
- wherein the first electrically conducting layer is used as
- 3 ground.
- 1 Claim 36 (new): The antenna array as recited in claim 24
- wherein the first and second antenna structures comprise
- 3 flat antennas.
- 1 Claim 37 (new): The antenna array as recited in claim 36
- wherein the first and second antenna structures comprise
- 3 vertical antennas which are sensitive to incident radiation
- 4 with a radiation component parallel to respective planes in
- which the first and second antenna structures are oriented.
- 1 Claim 38 (new): The antenna array as recited in claim 37
- 2 wherein the first and second antenna structures comprise
- 3 tapered slot antennas.
- Claim 39 (new): The antenna array as recited in claim 27
- wherein the first sheet-shaped support is folded along said
- one of said two separate fold-lines such that one of the
- first support plane, the second support plane and the base
- 5 plane, so as to collectively define three planes, is
- 6 positioned substantially perpendicular to one of the other
- 7 ones of said three planes.

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- Claim 40 (new): The antenna array as recited in claim 27
  wherein the base plane is substantially rectangular, said
  first support plane is positioned at a first side of the
  rectangular base plane and said second support plane is
  positioned at a second side of the rectangular base plane
  transverse to the first side.
- 1 Claim 41 (new): The antenna array as recited in claim 24 2 wherein the first sheet-shaped support is folded to a 3 sleeve-like shape.
- 1 Claim 42 (new): The antenna array as recited in claim 24
  2 wherein either said first or said second antenna structures
  3 is connectable, via a non-contact connection, to a signal
  4 processing device externally situated to the antenna array.
- 1 Claim 43 (new): A method for manufacturing an antenna array 2 comprising the steps of:

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15 16 folding each of first and second sheet-shaped supports along corresponding first and second fold-lines in said first and second sheet-shaped supports so as to form:

a first support plane, in each one of the first and second sheet-shaped supports and respectively along said first and second ones of the fold-lines, having a first antenna structure arranged for receiving or emitting electro-magnetic radiation; and

a second support plane, in each one of the first and second sheet-shaped supports and adjacent to said first support plane therein and respectively along said first and second ones of the fold-lines, the second support plane in said each one of the first and second sheet-shaped supports being positioned at an angle with respect to the first

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support plane also in said each one of the first and second 18 sheet-shaped supports, respectively, and having a second antenna structure arranged for receiving or emitting electro-magnetic radiation which differs in at least one property from the electromagnetic radiation which is received or emitted by the first antenna structure; and wherein the first and second sheet-shaped supports are physically connected to each other at or near the first and 25 second fold-lines.